PTO/SB/21 (04-04) Approved for use through 07/31/2006. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. Application Number TRANSMITTAL Filing Date **FORM** First Named Inventor Art Unit (to be used for all correspondence after initial filing) **Examiner Name** SWARTHOUT Attorney Docket Number NOHOUS Total Number of Pages in This Submission **ENCLOSURES** (Check all that apply) After Allowance communication Fee Transmittal Form Drawing(s) to Technology Center (TC) Appeal Communication to Board Licensing-related Papers of Appeals and Interferences Fee Attached Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) Amendment/Reply Petition to Convert to a Proprietary Information After Final **Provisional Application** Power of Attorney, Revocation Status Letter Affidavits/declaration(s) Change of Correspondence Address Other Enclosure(s) (please Terminal Disclaimer **Extension of Time Request** Identify below): postcard receipt Request for Refund **Express Abandonment Request** CD, Number of CD(s) Information Disclosure Statement Remarks Certified Copy of Priority Document(s)

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Firm or Individual name NAUTEQ, NORTH AMERICA, LLC Signature Date 1104. 29. 2004

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Signature	Frank J. Kozal	Date	Nov. 29, 2004

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Response to Missing Parts/ Incomplete Application

Response to Missing Parts under 37 CFR 1.52 or 1.53

PTO/SB/17 (10-04)

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EE TRANSMITTAL for FY 2005

Effective 10/01/2004. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

340 TOTAL AMOUNT OF PAYMENT

Signature

Complete if Known				
Application Number	09/970,375			
Filing Date	10/3/2001			
First Named Inventor	PAINTER			
Examiner Name	B. SWARTHOUT			
Art Unit	2636			
Attorney Docket No.	NOUS			

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PATENT Case No. N0110US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re A	Application of: JEFFREY E. PAINTER)
Serial	No. 09/970,375) Group Art Unit:) 2636
Title	NAVIGATION SYSTEM THAT) 2030
Tiue.		,
	SUPPORTS MULTIPLE) Examiner:
	LANGUAGES AND FORMATS) BRENT SWARTHOUT
)
Filed:	October 3, 2001)

APPEAL BRIEF

Commissioner for Patents Alexandria, Virginia 22313-1450

This appeal brief is submitted pursuant to 37 CFR 41.37. This is an appeal of the final Office Action dated June 3, 2004. A Notice of Appeal was filed on September 30, 2004. Authorization for payment of the fee prescribed by 37 CFR 41.20(b)(2) accompanies this brief.

(1) REAL PARTY IN INTEREST

The real party in interest is NAVTEQ, North America, LLC (formerly Navigation Technologies Corporation), a publicly traded corporation that has its headquarters in Chicago, Illinois.

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(2) RELATED APPEALS AND INTERFERENCES

There are no related appeals or interferences.

(3) STATUS OF CLAIMS

Claims 1-11 are pending.

All the pending claims were rejected and all the pending claims have been appealed.

(4) STATUS OF AMENDMENTS

There has been no amendment filed subsequent to the final rejection.

(5) SUMMARY OF INVENTION

Appellant's claims relate to a type of navigation system in which end users obtain navigation services from a server (page 1, lines 13-26). One consideration to be addressed with this type of navigation system is providing navigation services in different languages. For example, some end users may want navigation information in English, whereas other end users may want navigation information in French, Spanish, or another language (page 2, lines 14-17). Appellant's claims relate to a navigation system that addresses this consideration.

Appellant's independent Claim 1 relates to a "navigation system" (110 in FIG. 1; page 4, lines 13-15 and 20-23) in which "end user electronic devices" (130 in FIG. 1; page 4, lines 24-31) send "requests" for "navigation services" (page 4, lines 15-19) to a

"customer-interface server" (202(1) in FIGS. 1 and 2; page 5, line 26-page 6, line 28), which in turn, transmits "query messages" (page 6, lines 15-21) over the "Internet" (140 in FIGS. 1 and 2, page 5, lines 2-6) to a "navigation-services server" (200 in FIGS. 1 and 2; page 7, line 1-page 8, line 9) for information to respond to the "requests." The "navigation-services server" (200 in FIGS. 1 and 2; page 7, lines 2-10) uses "navigation applications" (280 in FIGS. 2 and 3; page 8, lines 11-29) and an associated "geographic database" (270 in FIGS. 2 and 3; page 7, line 11-page 8, line 9) to formulate "language-independent reply messages" (420 in FIGS. 2 and 3, page 15, lines 11-23) that are sent (page 17, lines 15-17) to the "customer-interface server" (202(1) in FIGS. 1 and 2). The "customer-interface server" (202(1) in FIGS. 1 and 2) uses the "language-independent reply messages" (420 in FIGS. 2 and 3) to formulate "responses" (page 17, line 17-page 18, line 1) that are sent (page 18, lines 1-4) to the "end user electronic devices" (130 in FIGS. 1).

Appellant's independent Claim 7 relates to a method for providing routing information using a "navigation system" (110 in FIG. 1; page 4, lines 13-15 and 20-23). According to Appellant's Claim 7, a "customer-interface server" (202(1) in FIGS. 1 and 2; page 5, line 26-page 6, line 28) receives a request over a "data network" (140 in FIGS. 1 and 2, page 5, lines 2-6) from an "end user" (130 in FIG. 1; page 4, lines 24-31) for route guidance to a destination. The "customer-interface server" (202(1) in FIGS. 1 and 2) sends a message over the "data network" (140 in FIGS. 1 and 2) to a "navigation-related information server" (200 in FIGS. 1 and 2; page 7, line 1-page 8, line 9) for maneuvering instructions. Then, the "navigation-related information server" (200 in

FIGS. 1 and 2) calculates a route (302 in FIG. 4) to the destination and determines a "series of maneuvers" (340 in FIG. 5 and 350 in FIG. 6; page 12, lines 15-22) for traveling along the route to the destination. The "navigation-related information server" (200 in FIGS. 1 and 2) forms a "language- and format-independent data structure" (420 in FIGS. 2 and 3, page 15, lines 11-23) that represents the "series of maneuvers" (350 in FIG. 5). The "navigation-related information server" (200 in FIGS. 1 and 2) sends the "language- and format-independent data structure" (420 in FIGS. 2 and 3, page 15, lines 11-23) over the "data network" (140 in FIGS. 1 and 2). The "customer-interface server" (202(1) in FIGS. 1 and 2). The "customer-interface server" (202(1) in FIGS. 2 and 3, page 15, lines 11-23) to form "language- and format-specific maneuvering instructions" (page 17, line 17-page 18, line 4) which are then provided to the "end user" (130 in FIG. 1) over the "data network" (140 in FIGS. 1 and 2).

(6) GROUNDS OF REJECTION TO BE REVIEWED ON APPEAL

At issue is whether Appellant's independent Claims 1 and 7 and dependent Claims 2, 5, 8 and 10 are obvious under 35 U.S.C. 103 over the combination of U.S. Pat. No. 6,477,526 ("Hayashi") and U.S. Pat. No. 6,297,748 ("Lappenbusch"). Also, at issue is whether Appellant's dependent Claims 3, 4, 6, 9, and 11 are obvious under 35 U.S.C. 103 over the combination of Hayashi, Lappenbusch, and U.S. Pat. No. 6,553,309 ("Uchida").

(7) ARGUMENT

Appellant's claims relate to a navigation system in which end users can obtain navigation services in different languages from a server (page 1, lines 13-26). In the final Office Action, Appellant's independent Claims 1 and 7 were rejected as obvious over the combination of Hayashi and Lappenbusch. In the final Office Action, the position was taken that Hayashi disclosed all the limitations of Appellant's Claim 1, except that Hayashi did not disclose that the reply messages were language independent. According to the final Office Action, Lappenbusch teaches the desirability of providing an end user with language independent navigation information so that data from plural different systems can be used (See, final Office Action, page 2, lines 19-20).

The position that Appellant's independent Claims 1 and 7 and dependent Claims 2, 5, 8 and 10 are obvious over the combination of Hayashi and Lappenbusch is in error for at least the following three reasons.

1st reason - The rejection of Appellant's claims is based on a misreading of the specific language in the claims.

First of all, the rejection of Appellant's claims in the final Office Action is in error because it is based on a misreading of these claims. This results in a misstatement of the method of operation of Appellant's claimed system. In fact, the system purported in the final Office Action to be defined by Appellant's claims operates in almost exactly the opposite way as the system defined by the actual language of Appellant's claims.

Because of this misreading of Appellant's claims, the prior art references are applied to a system that is different from Appellant's claimed system.

The misstatement of Appellant's claims occurs in the portion of the final Office

Action in which Hayashi and Lappenbusch are applied to Appellant's Claim 1. Referring to the final Office Action, it states that Hayashi discloses certain navigation system components "... except for specifically stating that the reply messages are language independent" (final Office Action, page 2, lines 10-16). Then, the final Office Action states "Lappenbusch teaches the desirability of providing navigation information to an end user which is language independent, so that a common format is used so that data from plural different systems can be utilized by an end user" (final Office Action, page 2, lines 17-20). [Emphasis added.] Then, the final Office Action states "It would have been obvious to use language independent data for communication from a server to an end user in a system as disclosed by Hayashi, in order that a user could have effectively used route guidance data from a plurality of differently formatted data sources" (final Office Action, page 2, lines 21-24).

The above quoted statements from the final Office Action misstate the actual language in Appellant's claims. The statements and conclusion expressed in the final Office Action mistakenly state that Appellant's claims call for language independent data to be sent to end users. Appellant's claims do not recite that language independent data is sent to end users. Rather, Appellant's independent claims recite that "language independent reply messages" are sent from a "navigation services server" to a "customer-interface server." Then, Appellant's independent claims recite that the "customer-interface server" uses the "language independent reply messages" to formulate "responses" that are sent to end users.

In the system and method recited by Appellant's claims, the "responses" sent by the "customer-interface server" to the end users can be (and most likely would be) language dependent. Thus, end users of Appellant's claimed system can obtain navigation information in whatever language they like, so long as it is supported by the "customer-interface server." Appellant's claimed system enables English-speaking end users to obtain navigation information in English, Spanish-speaking end users to obtain navigation information in Spanish, French-speaking end users to obtain navigation information in French, and so on. Appellant's claimed system enables providing language dependent navigation information to be sent to end users by isolating the end users from the "navigation services server." This isolation is provided by the "customer-interface server." This is almost exactly opposite to the system mistakenly described as being Appellant's system by the final Office Action. According to the system mistakenly described as being Appellant's system in the final Office Action, end users receive reply messages that are language independent from a server. Appellant takes no position on whether such a system would have any utility or whether it would be obvious over Hayashi and Lappenbusch. However, since such a system is not the system described by Appellant's claims, these issues are not relevant to the patentability of the Appellant's claims.

Because the rejection in the final Office Action is premised on a misinterpretation of Appellant's claims and overlooks the actual specific language of the claims, the rejection of Appellant's claims as obvious over the combination of Hayashi and Lappenbusch is in error.

2nd reason - Hayashi relates to "formats" not "languages."

Another reason why Appellant's claims are not obvious over the combination of Hayashi and Lappenbusch, is that even if these references were combined, they do not disclose all the limitations of Appellant's claims. Specifically, neither Hayashi nor Lappenbusch discloses the sending of "language-independent reply messages", as recited in Appellant's claims.

The final Office Action acknowledged that Hayashi did not disclose reply messages that were language independent, but stated that Lappenbusch taught the desirability of providing an end user with navigation information that was language independent. The position expressed in the final Office Action that Lappenbusch teaches the desirability of providing an end user with navigation information that is *language* independent is in error. Lappenbusch does not teach <u>language</u> independence. Rather, Lappenbusch addresses an entirely different problem. Lappenbusch refers to "formats", specifically "file formats." Lappenbusch recognizes the problem that traffic data obtained from different sources may be in different formats. (Lappenbusch: column 2, lines 25-34.) Lappenbusch discloses that the data in different formats may be converted into a common "file format." (Lappenbusch: column 8, lines 38-52.) A "format" for data is not the same as a "language", such as English, Spanish, or French. Although Lappenbusch may teach the desirability of a common "file format", Lappenbusch does not have any disclosure relating to or teaching the desirability of <u>language</u>-independence. For this reason, Appellant's claims are not obvious over the combination of Hayashi and Lappenbusch.

3rd reason - Hayashi and Lappenbusch fail to disclose a system in which a server, to which requests for navigation services are sent, sends responses to the requests, as recited in Appellant's claims.

Another reason why Appellant's claims are not obvious over the combination of Hayashi and Lappenbusch is that these references, even if combined, fail to disclose the feature of the Appellant's claims that "responses" to end user "requests for navigation services" are sent from a "customer-interface server" to "end user electronic devices."

For the sake of argument, assume that the WWW server 22 of Hayashi corresponds to the "customer-interface server" of Appellant's Claim 1 and that the route calculation server 16 of Hayashi corresponds to the "navigation-services server" of Appellant's Claim 1. In Hayashi, the route calculation server 16 prepares a "route data point sequence" and "route ID" which are sent to the WWW server 22. (Hayashi: column 9, lines 9-13.) Then, the Hayashi WWW server 22 sends the "route ID" to the user terminal 1. However, Hayashi specifically states that the "route point data sequence" is not sent to the end user terminal 1 because it is too large. (Hayashi: column 9, lines 32-35.) According to Hayashi, the end user terminal 1 makes a separate request for route information by sending the "route ID" to the map server 12 in order to obtain the GIF image of the route. (Hayashi: column 9, lines 45-64.) Thus, in the Hayashi system, the end user receives route information from the map server 12 and not the WWW server 22. Therefore, Hayashi is unlike Appellant's Claim 1, which recites that the "responses" for the "requests for navigation services" are obtained by the end users

from the same server (i.e., the "customer-interface server") to which the "requests" are sent.

For this additional reason, Appellant's claims are not obvious over the combination of Hayashi and Lappenbusch.

Appellant's dependent Claims 3, 4, 6, 9, and 11

Appellant's dependent Claims 3, 4, 6, 9, and 11 include additional subject matter related to the use of XML and XML stylesheets (page 15, lines 18-20; page 15, line 29-page 17, line 11) for the "language independent reply messages" (420 in FIGS. 2 and 3) that are sent from the "navigation-services server" (200 in FIGS. 1 and 2; page 7, lines 2-10) to the "customer-interface server" (202(1) in FIGS. 1 and 2). In the final Office Action, Appellant's dependent Claims 3, 4, 6, 9, and 11 were rejected as obvious over the combination of Hayashi, Lappenbusch, and U.S. Pat. No. 6,553,309 ("Uchida"). According to the final Office Action, Uchida teaches the desirability of using the XML format for navigation data (final Office Action, page 3, line 5).

Appellant's dependent Claims 3, 4, 6, 9, and 11 are allowable over the combination of Hayashi, Lappenbusch, and Uchida for at least two reasons. First, Appellant's dependent Claims 3, 4, 6, 9, and 11 depend on allowable base claims (as explained above) and therefore are also allowable. Secondly, Appellant's dependent Claims 3, 4, 6, 9, and 11 are allowable because the statement in the final Office Action about the teachings of Uchida is in error. Contrary to the position taken in the final Office Action, Uchida does not teach the desirability of using XML for navigation data. Uchida discloses using XML to modify a menu screen in a navigation system (Uchida:

column 9, lines 43-61). This is an entirely different usage compared to the use of XML for formatting navigation data.

For the above reasons, Appellant's dependent Claims 3, 4, 6, 9, and 11 are not obvious over the combination of Hayashi, Lappenbusch, and Uchida.

ARGUMENT SUMMARY AND CONCLUSION

Appellant's claims relate to a type of navigation system in which end users obtain language-dependent navigation services from a remote server. The navigation system described by Appellant's claims accomplishes this by providing a separate customer interface server that isolates the end users from a navigation information server. End users request navigation services from the customer interface server, which formulates requests for navigation services from the navigation information server. The navigation information server sends language independent responses containing navigation-related information to the customer interface server, which then formulates replies that are sent to the end users.

Appellant's claims are not obvious over the combination of Hayashi and Lappenbusch. The final Office Action rejection is premised on a misstatement of the actual language in Appellant's claims. Furthermore, Lappenbusch, which is relied on in the final Office Action for showing language independent messages, does not even disclose language independent messages, but instead discloses using a common file format for data. Finally, Hayashi, which is relied on for showing components of

Appellant's claimed system, discloses a system in which the components function in a significantly different way.

Therefore, the rejection of Appellant's Claims 1-11 is in error.

Appellant respectfully requests the Board to reverse the rejection of Claims 1-11.

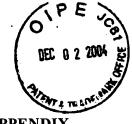
Respectfully submitted,

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(8) APPENDIX

1. A navigation system comprising:

end user electronic devices;

a customer-interface server; and

a navigation-services server,

wherein said end user electronic devices send requests for navigation services to said customer-interface server and receive responses to said requests from said customer-interface server:

wherein said customer-interface server includes programming that, upon receiving said requests from said end user electronic devices, transmits query messages over the Internet to said navigation-services server, wherein said query messages request navigation information for responding to said requests;

wherein said navigation-services server receives said query messages from said customer-interface server, and using navigation applications installed on said navigation-services server and a geographic database associated therewith, formulates language-independent reply messages to said query messages, and sends said language-independent reply messages to said customer-interface server; and

wherein said customer-interface server further includes programming that, upon receiving said language-independent reply messages from said navigation-services server, formulates said responses and sends said responses to said end user electronic devices.

- 2. The navigation system of Claim 1 wherein said requests for navigation services from said end user electronic devices are sent to said customer-interface server over the Internet.
- 3. The navigation system of Claim 1 wherein said language-independent reply messages are in XML format.
- 4. The navigation system of Claim 1 wherein said customer-interface server uses XML stylesheets to formulate the responses that are sent to said end user electronic devices.
- 5. The navigation system of Claim 1 wherein the responses that are sent to said end user electronic devices are in HTML format.
- 6. The navigation system of Claim 5 wherein said customer-interface server uses an XML stylesheet to formulate the responses that are sent to said end user electronic devices into HTML format.
- 7. A method for providing routing information using a navigation system, the method comprising:

on a customer-interface server, receiving a request over a data network from an end user for route guidance to a destination;

from the customer-interface server, sending a message over the data network to a navigation-related information server for maneuvering instructions;

on the navigation-related information server, after receiving the message from the customer-interface server, calculating a route to the destination and determining a series of maneuvers for traveling along a route to the destination;

on the navigation-related information server, forming a language- and formatindependent data structure that represents the series of maneuvers;

from the navigation-related information server, sending the language- and formatindependent data structure over the data network to the customer-interface server;

on the customer-interface server, using the language- and format-independent data structure received from the navigation-related information server to form language- and format-specific maneuvering instructions; and

from the customer-interface server, providing the form language- and formatspecific maneuvering instructions to the end user over the data network.

- 8. The method of Claim 7 wherein the language- and format-specific maneuvering instructions are in HTML format.
- 9. The method of Claim 7 wherein the language- and format-independent data structure is in XML format.
 - 10. The method of Claim 7 wherein the data network comprises the Internet.

11. The method of Claim 7 wherein said customer-interface server uses an XML stylesheet to form the language- and format-specific maneuvering instructions.